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## (54) OPTO-ELECTRONIC FUNCTIONAL MATERIAL AND PRODUCTION OF THIN FILM OF THE SAME

### (57)Abstract:

PURPOSE: To improve electronic characteristics such as the number of carriers and mobility and optical characteristics such as nonlinear optical const. by combining a p-conjugate compd. and a specified compd.

CONSTITUTION: This material consists of a p-conjugate compd. and a compd. (Cn compd.) expressed by formula Cn ((n) is constant >60). In the material comprising the combination of a Cn compd. and a p-conjugate compd. except for Cn, electrons or charges move from the p-conjugate compd. excluding Cn compd. to the Cn compd. so that the material has excellent optical and electronic characteristics. This material is produced by various methods, and such methods are advantageous to obtain good characteristics by laminating the p-conjugate compd. and the Cn compd. as thin films or mixed in a molecular state and formed into a thin film in order to effectively induce transfer of electrons or changes between these compds.

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